

AMENDMENT

IN THE CLAIMS:

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A coated substrate comprising:

a base substrate;

at least one ~~or more~~ ink receptive layer~~[[s]]~~;

an undercoat layer positioned between said base substrate and said at least one ~~or more~~ ink receptive layer~~[[s]]~~; and

a barrier layer positioned between said undercoat layer and said at least one ~~or more~~ ink receptive layer~~[[s]]~~,

wherein said at least one ~~or more~~ ink receptive layer~~[[s]]~~ comprises at least one ~~or more~~ material~~[[s]]~~ selected from the group of hydrophilic polymers consisting of polyvinyl alcohol, gelatin, methylcellulose, hydroxyethylcellulose, propylhydroxycellulose, and polyvinyl pyrrolidone;~~[[.]]~~ and

wherein said undercoat layer provides a high-holdout pre-coat for said barrier layer.

2-5. (cancelled)

6. (currently amended) The coated substrate of claim 1 wherein said barrier layer comprises:

at least one ~~or more~~ monomer[[s]];

at least one ~~or more~~ oligomer[[s]]; and

at least one ~~or more~~ photoinitiator[[s]].

7. (currently amended) The coated substrate of claim 6 wherein said at least one ~~or more~~ monomer[[s]] comprises one or more of the group consisting of a urethane, an epoxy and an acrylate.

8. (currently amended) The coated substrate of claim 6 wherein said at least one ~~or more~~ oligomer[[s]] comprises one or more of the group consisting of a urethane, an epoxy and an acrylate.

9. (currently amended) The coated substrate of claim 6 wherein said at least one ~~or more~~ monomer[[s]] is between about 1 and about 100 dry percent of said barrier layer.

10. (currently amended) The coated substrate of claim 6 wherein said at least one ~~or more~~ oligomer[[s]] is between about 1 and about 100 dry percent of said barrier layer.

11. (currently amended) The coated substrate of claim 6 wherein said at least one ~~or more~~ photoinitiator[[s]] is between about 1 and about 20 dry percent of said barrier layer.

12. (previously presented) The coated substrate of claim 1 wherein said barrier layer is treated with:

a corona discharge.

13. (previously presented) The coated substrate of claim 1 wherein said barrier layer is treated with:

flame treatment.

14. (previously presented) The coated substrate of claim 1 wherein said barrier layer is treated with:

subbing coating.

15. (currently amended) The coated substrate of claim 1, said at least one ~~or more~~ ink receptive layer[[s]] comprising one or more absorbent materials.

16. (cancelled)

17. (cancelled)

18. (currently amended) The coated substrate of claim 1 wherein said at least one ~~or more~~ ink receptive layer[[s]] further comprises one or more cationic polymer material(s) selected from the group consisting of polydadmecs, polyamides, and polyamines.

19. (currently amended) The coated substrate of claim 1 wherein said hydrophilic polymer is between about 10 and about 100 dry percent of said at least one ~~or more~~ ink receptive layer[[s]].

20. (currently amended) The coated substrate of claim 18 wherein said at least one ~~or more~~ cationic polymer material[[s]] is between about 0.1 and about 20 dry percent of said at least one ~~or more~~ ink receptive layer[[s]].

21. (currently amended) The coated substrate of claim 1 wherein said at least one ~~or more~~ ink receptive layer $[(s)]$  further comprises at least one ~~or more~~ latex binder $[(s)]$  selected from the group consisting of styrene butadiene, polyvinyl acetate, acrylic, vinyl-acetate, ethylene-vinyl chloride, and urethane.

22. (currently amended) The coated substrate of claim 21 wherein said at least one ~~or more~~ latex binder $[(s)]$  is between about 0 and about 30 dry percent of said at least one ~~or more~~ ink receptive layer $[(s)]$ .

23. (currently amended) The coated substrate of claim 1 wherein said at least one ~~or more~~ ink receptive layer $[(s)]$  further comprises at least one ~~or more~~ cross linking agent $[(s)]$  selected from the group consisting of aziradines and chrom alum.

24. (currently amended) The coated substrate of claim 23 wherein said at least one ~~or more~~ cross-linking agent $[(s)]$  is between about 0.01 and about 20 dry percent of said at least one ~~or more~~ ink receptive layer $[(s)]$ .

25. (currently amended) The coated substrate of claim 1 wherein said at least one ~~or more~~ ink receptive layer $[(s)]$  further comprises at least one ~~or more~~ inorganic pigment $[(s)]$  selected from the group consisting of colloidal silica, precipitated silica, fumed silica, gel silica, clay, an alumina, and a calcium carbonate.

26. (currently amended) The coated substrate of claim 25 wherein said at least one ~~or more~~ inorganic pigment $[(s)]$  is between about 0 and about 75 dry percent of said at least one ~~or more~~ ink receptive layer $[(s)]$ .

27. (currently amended) The coated substrate of claim 1 wherein said at least one ~~or more~~ ink receptive layers $[(s)]$  further comprises at least one ~~or more~~ color pigmented and brightener dye.

28. (currently amended) The coated substrate of claim 1 wherein said at least one or more ink receptive layers[[s]] further comprises at least one or more flow agent[[s]].

29. (currently amended) The coated substrate of claim 1 wherein said at least one or more ink receptive layers[[s]] further comprises at least one or more coating additive[[s]].

30. (currently amended) The coated substrate of claim 1 wherein said at least one or more ink receptive layers[[s]] is coated at a coat weight of between about 1 and about 50 dry gsm.

31. (currently amended) The coated substrate of claim 1 wherein said at least one or more ink receptive layers[[s]] further comprises a plasticizer.

32. (currently amended) The coated substrate of claim 1, further comprising at least one or more anti-curl layer[[s]] applied to a side of said base substrate, said side opposite a side on which said undercoat layer is positioned.

33-43. (cancelled)

44. (previously presented) The coated substrate of claim 1 wherein said barrier layer has a surface energy of about 48 to about 55 dynes.

45. (previously presented) The coated substrate of claim 1 wherein said barrier layer has a surface energy of about 30 to about 55 dynes.

46. (previously presented) The coated substrate of claim 1 wherein said barrier layer comprises polyethylene.

47. (previously presented) The coated substrate of claim 1 wherein said barrier layer is cured via one or more of the group consisting of ultraviolet energy and electron[[m]] beam energy.

48. (cancelled)

49. (previously presented) The coated substrate of claim 1 wherein said barrier layer is coated at a coat weight between about 2 to about 9 dry gsm.

50. (currently amended) The coated substrate of claim 1 wherein said at least one ~~or more~~ ink receptive layer[[s]] is coated at a coat weight between about 1 to about 22 dry gsm.

51. (currently amended) The coated substrate of claim 32 wherein said at least one ~~or more~~ anti-curl layer[[s]] is coated at a coat weight of about 3 to about 15 dry gsm.

52. (cancelled)

**STATUS OF THE CLAIMS**

Claims 1, 6-15, 18-32, 44-47 and 49-51 are pending in the Application

Claims 1, 6-15, 18-32, 44-47 and 49-51 are rejected by the Examiner.

Reconsideration of the present Application is respectfully requested in light of the amendments made herein.

**STATUS OF THE DRAWINGS**

**Response to Notice of DraftPerson's Patent Drawing Review**

In response to the DraftPerson's notice regarding the drawing of the present application, Applicant respectfully submits, under separate transmittal pursuant to 37 CFR 1.84, a proper drawing in compliance with standard practice and procedure.

**REMARKS**

**Claim Rejections Pursuant to 35 U.S.C. 112**

Claims 6-11 stand rejected under 35 USC §112, first paragraph, as failing to comply with the enablement requirement. Applicant traverses these rejections and deems them overcome for at least the following reasons:

Applicant has amended, without prejudice, Claims 6-11 to indicate that the barrier layer is comprised of at least one monomer, at least one oligomer and at least one photoinitiator.

Applicant respectfully submits that the above 35 U.S.C. §112 second paragraph rejection has thusly been overcome.